

PIG'S EYE LANDFILL
RECORDS COMPILATIONS
RED ARROW WASTE DISPOSAL COMPANY

US EPA RECORDS CENTER REGION 5

946848

DCN	DATE	AUTHOR	RECIPIENT	TITLE	SUMMARY	PRPS
00750	05/23/72	VIRGIL L. HILLSTROM AND FRANK VANYO, WHIRLP	DISPOS, CASANO, WACOIN, HAWASY, REDARW	LETTER TO HAULERS	A LETTER TO WASTE DISPOSAL SERVICES REGARDING A BID FOR A CONTRACT WITH WHIRLP FROM 07/01/72 TO 06/30/73. THE DOCUMENT LISTS THE TYPE OF EQUIPMENT AND CONDITIONS OF THE CONTRACT. THE DOCUMENT STATES THE CONTRACTOR WILL NEED ONE 55 GALLON DRUM CONTAINER FOR PORCELAIN SLUDGE PAINT MATERIAL TO BE PICKED UP TWICE A MONTH.	WHIRLP, DISPOS, CASANO, WACOIN, HAWASY, REDARW
00889	01/17/73	E.W. HARTUNG, WHIRLP	GARY A. PULFORD, MPCA	LETTER REGARDING WHIRLP WASTE	A LETTER WHICH STATES WHIRLP'S PRESENT DISPOSAL COMPANY IS REDARW. THE CONTRACT INCLUDES DISPOSAL OF PAINT SLUDGE, HYDROCARBON SOLVENTS, OILS, GREASES, AND SYNTHETIC ADHESIVE. THE DOCUMENT STATES THAT THE ABOVE-MENTIONED MATERIALS MUST BE DELIVERED TO POLLUTION CONTROLS, INC. FOR DISPOSAL. PRIOR TO MPCA'S LETTER THE WASTE WAS DISPOSED BY REDARW AT A LANDFILL NEAR WHITE BEAR LAKE, MN. THE DOCUMENT PROVIDES ESTIMATED QUANTITIES OF MATERIALS DISPOSED OF IN A MPCA MANNER.	WHIRLP, REDARW
01022	07/23/81	JERRY PETERSON, WHIRLP	MICHAEL B. AYRES, MPCA	LETTER REGARDING WHIRLP'S RELATION WITH REDARW	A LETTER WHICH STATES AS OF 06/18 WHIRLP HAS ENCLOSED CORRESPONDENCE CONCERNING DEALINGS WITH REDARW FOR THE PERIOD 1972 - 1973. THE DOCUMENT DOES NOT INCLUDE SAID ATTACHMENTS AND ALSO STATES WHIRLP IS ATTEMPTING TO DETERMINE WHAT SYNTHETICS ARE BEING USED IN COSTPA DURING THE TIME IN QUESTION.	WHIRLP, REDARW

PIG'S EYE LANDFILL
RECORDS COMPILATIONS
RED ARROW WASTE DISPOSAL COMPANY

DCN	DATE	AUTHOR	RECIPIENT	TITLE	SUMMARY	PRPS
01827	01/09/91	MPCA	REDARW	MPCA INFORMATION REQUEST LETTER REGARDING PIG'S EYE AND REDARW RESPONSE	A REDARW'S RESPONSE WHICH STATES REDARW HAULED TO PIG'S EYE FROM 1956 - 1972; THEY ARE NOT AWARE OF ANY HAZARDOUS WASTE HAULED TO PIG'S EYE; AND THEY DON'T HAVE A LIST OF THEIR INDUSTRIAL CUSTOMERS WHOSE WASTE WAS TAKEN TO PIG'S EYE.	REDARW
02143	02/02/93	BRIGGS AND MORGAN LAW OFFICES	MIRIAN HORNEFF, MPCA	LETTER REGARDING REDARW	A LETTER REQUESTING THAT HELEN KRAWCZEWSKI NOT BE NAMED A RESPONSIBLE PARTY. THE DOCUMENT STATES SHE IS A MINORITY GENERAL PARTNER OF REDARW. THE DOCUMENT STATES THAT SHE NEVER HAD ANY KNOWLEDGE OF ANY ACTIVITIES OCCURING AT THE WHITE BEAR LAKE TOWNSHIP DUMP.	WHIRLP, REDARW
02146	02/12/93	BRIGGS AND MORGAN LAW OFFICES	CATHY O'CONNELL, MPCA	REDARW RESPONSE	REDARW'S AMENDED RESPONSE TO MPCA'S REQUEST FOR INFORMATION CONCERNING PIG'S EYE. THE DOCUMENT STATES THAT THE CURRENT COMPANY WAS FORMED IN 1982 AND WAS NOT IN EXISTENCE TO HAUL WASTE TO PIG'S EYE FROM 1956 TO 1972. ALSO INCLUDED, IS THE AFFIDAVIT OF RICHARD KRAWCZESK WHICH STATES THAT HE HAS FULLY COMPLIED WITH MPCA'S INFORMATION REQUEST REGARDING PIG'S EYE.	REDARW
02153	03/22/93	JEFF BUSS	FILE	MEMO REGARDING WASHINGTON COUNTY LANDFILL	A MEMO FROM JEFF BUSS REGARDING AN INTERVIEW WITH TOM HARTMAN ABOUT WASHINGTON COUNTY LANDFILL. THE DOCUMENT STATES THE CURRENT COMPANY WAS FORMED IN 1982 AND WAS NOT IN EXISTENCE TO HAUL WASTE TO PIG'S EYE FROM 1956 TO 1972. ALSO INCLUDED, IS THE AFFIDAVIT OF RICHARD	REDARW

Page No. 3
02/24/95

PIG'S EYE LANDFILL
RECORDS COMPILATIONS
RED ARROW WASTE DISPOSAL COMPANY

DCN	DATE	AUTHOR	RECIPIENT	TITLE	SUMMARY	PRPS
					KRAWCZEWSK WHICH STATES THAT HE HAS FULLY COMPLIED WITH MPCA'S INFORMATION REQUEST REGARDING PIG'S EYE.	
02249				AIR CONTAMINANT EMISSIONS SURVEY - WHIRLP	THE EMISSIONS SURVEY FOR THE WHIRLP - ST. PAUL DIVISION. THE CONTACT PERSON NAMED IS E.W. HARTIGN, FACILITIES ENGINEER. REDARW AND ST. PAUL LANDFILL PIG'S EYE ARE IDENTIFIED AS THE FACILITY'S DISPOSAL SITES AND HAULER. THE SURVEY ADDRESSES: FUEL USE; REFUSE DISPOSAL; PROCESS EMISSIONS; AND STACK DATA FOR NUMEROUS PLANT PROCESSES.	WHIRLP, REDARW

**Whirlpool**
CORPORATION

St. Paul Division

850 ARCADE STREET ST. PAUL, MINNESOTA 55106

May 23, 1972

Disposal Systems, Inc.
915 North Albert Street
St. Paul, Minnesota 55104

Red Arrow Waste Disposal Serv.
41 East Chicago Avenue
St. Paul, Minnesota 55107

Casanova Bros. Trucking
158 East Sidney
St. Paul, Minnesota 55107

Haul-A-Way Systems, Inc.
344 Larch Street
St. Paul, Minnesota 55117

Waste Control, Inc.
637 Pine Street
St. Paul, Minnesota 55101

Gentlemen:

Sealed bids for the open and closed rubbish and cardboard containers removal will be received at Whirlpool Corp., St. Paul Division through June 15, 1972. This contract will be for a 12 month period beginning July 1, 1972, and ending June 30, 1973.

The following equipment and requirements shall be the conditions of this contract:

1. Open containers shall be 30 yard capacity. If this size is not available within your operation, specify size that would be furnished.
2. Closed containers shall be 40 yard capacity containers compatible with E-Z Pack Model 3FPL1. Fixed packers (3 cu. yd.) are required. Charging opening in end gate, method of attachment to packer, etc.
3. 4 containers shall be required for proper service. 3 containers in use at all times and 1 spare for use when changing containers. A truck of sufficient capacity to handle 30 cubic yard containers is also required.
4. 1 container will be used for 55 gallon drums of porcelain sludge paint materials and will be picked up on the average of twice per month.

5. The company awarded this contract must assume all liability and responsibility for their employees and equipment while on Whirlpool Corporation property.
6. All prime contractors or sub-contractors doing work in our plant on routine or normal small projects, in addition to mandatory workman's compensation insurance, must furnish "Certificates of Insurance" and have a minimum of \$300,000 per person and of \$500,000 per occurrence or accident of liability insurance, and a minimum of \$300,000 in property damage insurance.
7. A maximum time of 4 hours between a call for pickup of a container and pickup is required.
8. Pickup tickets with dates and unit picked up must be signed by a Whirlpool Corporation representative at the time of each pickup and the ticket must be left in the Salvage Department.
9. Invoices shall be submitted monthly, showing date and container picked up. Dumping charges to be separate from pickup charges.
10. Willful violation of any part of these conditions will void the contract at the discretion of Whirlpool Corporation, St. Paul Division.
11. Whirlpool Corporation, St. Paul Division, reserves the right to reject any and/or all bids.

Please include acceptance of contract conditions 1 through 11 as part of your written bid.

Yours truly,

Frank Vanyo

Frank Vanyo *WHT*
Supervisor
Maintenance Department

Virgil L. Hillstrom

Virgil L. Hillstrom
General Foreman
Maintenance Department


Whirlpool
CORPORATION

St. Paul Division

 P. O. BOX 3380 • 850 ARCADE STREET
 ST. PAUL, MINNESOTA 55165

January 17, 1973

 Minnesota Pollution Control Agency
 717 Delaware Street S.E.
 Minneapolis, Minnesota 55440

 Attention: Gary A. Pulford
 Section of Enforcement
 Division of Solid Waste

Dear Sir:

Please be advised that we presently have a waste removal contract with Red Arrow Waste Disposal Company, of 41 E. Chicago Avenue, St. Paul, Minnesota, through June 30, 1973, for the removal of all waste materials from our facilities. This contract includes the disposing of paint sludges, hydrocarbon solvents, oils and greases, and synthetic adhesives.

As of the date of your letter, we have directed that all of the above mentioned materials must be delivered to Pollution Controls Inc. at Shakopee, Minnesota, for disposal. Previous to this date, the materials were placed in 55 gallon steel drums and were disposed of unknowingly to us in a sanitary landfill operation operated by Red Arrow at or near White Bear Lake, Minnesota.

Estimated quantities of the materials that must be disposed of in a M.P.C.A. approved manner are as follows:

1. Hydrocarbon Solvents & Reducers	200 Gallons per month
2. Paint Solids (both wet & dry)	800 " " "
3. Oils & Greases	2,000 " " "
4. Synthetic Adhesives	50 " " "

Should you require further data regarding the physical properties of our waste materials or require information, please contact me, as we desire to fully cooperate with the agency in all matters.

Yours truly,

 E. W. Hartung
 Facilities Engineer
 WHIRLPOOL CORPORATION

 cc: D. Casey
 A. Holland
 B. McEvoy
 T. Goodgame - Benton Harbor
 P. McGrath - Pollution Controls Inc.
 R. Krawczewski - Red Arrow

July 23, 1981

Mr. Michael B. Ayres
Regulatory Compliance Section
Solid & Hazardous Waste Division
Minnesota Pollution Control Agency
1935 West County Road B2
Roseville, Minnesota 55113

RECEIVED
JUL 29 1981
MINN. POLLUTION
CONTROL AGENCY

Dear Mr. Ayres:

As agreed in our meeting of June 18, we have enclosed copies of correspondence concerning our dealings with Red Arrow Waste Disposal Service for the 1972-1973 period, as follows:

1. Request for bids for waste disposal - dated May 23, 1972.
2. Notification to Red Arrow of their successful bid - dated June 29, 1972.
3. Whirlpool's letter of MPCA (G. Pulford) indicating all hazardous waste to Shakopee site - dated January 17, 1973.
4. Letter from MPCA (G. Pulford) to Whirlpool indicating receipt of "3" and thanking us for our cooperation - dated January 22, 1973.
5. Letter from Red Arrow to Whirlpool reporting that all non-hazardous waste always went to American Systems - dated April 12, 1973.
6. Letter from Red Arrow to Whirlpool renewing contract for waste removal, which indicated extra fee for disposal of "Sludge and Hazardous Waste" at Shakopee - dated June 18, 1973.

As the above material indicates, the only period when it was at all possible that any of our wastes would have gone to the Red Arrow Waste Disposal Site referred to in your letter of May 19, 1981, was between June 1, 1972 and January 17, 1973. This is shown by the initial contract award to Red Arrow on June 29, 1972, and our letter to you of January 17, 1973.

Our letter of January 17, 1973 lists estimated quantities of wastes which might have been disposed of by Red Arrow. The hydrocarbon solvents and reducers are volatile hydrocarbons and would have evaporated long ago regardless of where they were located. These materials are also easily degradable by soil bacteria so that none of these materials would remain after this long a period. The paint solids are not considered a hazardous waste under US EPA regulations. Further, these materials are essentially organic and would be expected to degrade biologically when exposed to solid and/or the atmosphere. The oils and greases would also degrade biologically on contact with soil.

We are attempting to determine what synthetic adhesives were being used at St. Paul during this period, but so far, have been unsuccessful. But whatever the case, these materials are also essentially organic in nature

Page Two

and would be expected to degrade naturally with time and biological action. If we can determine exactly what these adhesives are, we will let you know.

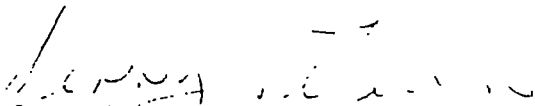
During our meeting, you showed us a picture of a closed drum taken in 1973 which was marked to indicate it was shipped to Whirlpool. We have identified this drum as having contained one of the materials that is used in the phosphating stage of our metal preparation for painting - called "bonderizing" in the trade. This drum would have been emptied of the materials which it contained, and may or may not have been filled with other material before it was disposed of. It is very possible that it contained one of the materials listed in your letter of January 17, 1973 to Mr. Gary Pulford of MPCA.

We also want to assure you that we have never used and consequently had to dispose of chemicals such as cyanides and pesticides at our plant on Arcade Street. We are essentially sheet metal benders and assemblers, and not chemical manufacturers.

The responsibility of handling and disposal of hazardous waste in the division has been turned over to Jerry Peterson, Manager, Material Control.

If I can be of further assistance, please let me know.

Very truly yours,


Jerry Peterson
Manager, Material Control
WHIRLPOOL CORPORATION
St. Paul Division

srn/d.43



Minnesota Pollution Control Agency

520 Lafayette Road, Saint Paul, Minnesota 55155-3898

Telephone (612) 296-6300



CERTIFIED MAIL
RETURN RECEIPT REQUESTED

January 9, 1991

Red Arrow Waste Disposal
44 East Acker
St. Paul, Minnesota 55117

Dear Sir/Madam:

RE: Requirement To Provide Information
Pig's Eye Dump/Fish Hatcheries Dump

Ground Water & Solid Waste Division Site Response Section	
File Name	_____
Sub File Name	_____
Initial	_____

The Minnesota Pollution Control Agency (MPCA) staff has identified a release or threatened release of hazardous substances or pollutants or contaminants at the Pig's Eye Dump/Fish Hatcheries Dump, located in Ramsey County, Minnesota. The MPCA staff is in the process of identifying persons who may be responsible for this release or threatened release.

The MPCA staff has reason to believe that Red Arrow Waste Disposal may have information which is relevant to the release or threatened release from the Pig's Eye Dump/Fish Hatcheries Dump. To facilitate the agency's investigation, the MPCA staff is sending you the enclosed Requirement To Provide Information. As the recipient of this Requirement To Provide Information, you have the legal duty under state law to provide information requested by the MPCA which is relevant to the release or threatened release of hazardous substances or pollutants or contaminants. Information obtained in response to the Requirement To Provide Information will be used by MPCA staff in carrying out their responsibilities, including the identification of responsible persons for the release or threatened release. This is a first Questionnaire; in the future it may be necessary to supplement the information available to MPCA with additional Questionnaires.

Since obtaining this information is an important initial step in the process, your response to the enclosed Questionnaire needs to be submitted within thirty (30) days from the date of the Requirement To Provide Information. The information in your response is vital and will allow us to protect the public health and the environment. Therefore, failure to provide timely, complete and accurate answers to the Questionnaire may result in legal actions by the state of Minnesota to compel disclosure.

Attachment 1 contains instructions for completing the Questionnaire. A list of definitions of words used in the Questionnaire may be found in Attachment 2. Please review both attachments prior to answering the Questionnaire.

Red Arrow Waste Disposal
Page 2
January 9, 1991

The completed Questionnaire and any relevant documents should be mailed to the following address:

Cathy O'Connell, Project Manager
Site Response Section
Ground Water and Solid Waste Division
Minnesota Pollution Control Agency
520 Lafayette Road
St. Paul, Minnesota 55155

Should you have any questions regarding this letter and the enclosed Requirement To Provide Information and Questionnaire, please contact me at (612) 296-7782 .

Sincerely,



Cathy O'Connell
Project Manager
Superfund Unit
Site Response Section
Ground Water and Solid Waste Division

CO:kkm

Enclosures

Questionnaire for Pig's Eye Dump/Fish Hatcheries Dump
and
Request for Production of Documents

1. Identify the full legal name, address and phone number of the business.
2. How many years has the business been in operation?
3. Identify the names and current addresses and telephone numbers of all current and past owner(s) of the business.
4. Identify all permits issued by federal, state, county, city or other governmental authorities which the business holds and the effective dates for such permits.
5. Did you haul garbage from businesses or industries to Pig's Eye Dump/Fish Hatcheries Dump from 1956 to 1972?
6. Did you haul hazardous waste to Pig's Eye Dump/Fish Hatcheries Dump? Include a list of (a) the name and address of all companies and/or individuals the business transported hazardous waste for (b) the type of hazardous waste if known; (c) how the waste was transported; (d) quantity disposed per load; (e) the time period of transportation and disposal of the hazardous waste.
7. How was the garbage and/or hazardous waste picked up from businesses and industries stored (for example, in drums, barrels, dumpsters) for pick up?
8. Did the business ever pick up open or sealed, 55 gallon drums with unidentified contents? If so, please identify the companies and/or individuals names and addresses the drums were picked up from.
9. Identify a list of all business and industrial customers whose garbage and/or hazardous waste you hauled to Pig's Eye Dump/Fish Hatcheries Dump?
10. Identify all persons whom the business consulted in the preparation of the response to the Questionnaire, including their current addresses and telephone numbers and relationship to the business.
11. Identify any other persons who may be able to provide a more detailed or complete response to the Questionnaire or who may be able to provide additional relevant documents.
12. Identify the insurance carrier held by you or the business during the time period you or the business hauled garbage and/or hazardous waste to Pig's Eye Dump/Fish Hatcheries Dump. Provide the name and address of each insurer and of the insured, amount of coverage under each policy, commencement and expiration data, existence of a "pollution exclusion" clause, and coverage of sudden or nonsudden types of accidents. (In lieu of providing this information, you may submit complete copies of all relevant insurance policies.)

Attachment 1
Instructions for Questionnaire

1. Enclose with your response to the Questionnaire a notarized affidavit from you or an authorized official representing your business attesting to the fact (a) that a diligent search for records relevant to this Questionnaire has been completed and (b) that a diligent interview process has been conducted with present and former employees who may have knowledge of waste generation or other waste management practices at Pig's Eye Dump/Fish Hatcheries Dump from 1956 to 1972. Any information that you provide in response to the Questionnaire that is based on your personal knowledge, or the personal knowledge of your employees, agents, or other representatives must be submitted in the form of a notarized affidavit.
2. Review the list of definitions in Attachment 2.
3. Make a separate written response to each question. Do not leave any blank questions.
4. Number each of your answers according to the corresponding numbered question. For each document produced in response to the Requirement to Provide Information, identify the number of the question to which it responds on the document or in some other reasonable manner.
5. In answering each question, identify all sources of information consulted in preparing the response.
6. You are required to respond to each question on the basis of any and all information and documents in your possession, custody, or control or the possession, custody, or control of your current or former employees, agents, or contractors, or other person who conducted business on your behalf. Furnish information that is available to you regardless of whether it is based on personal knowledge, and regardless of source.
7. Information necessary to adequately respond to a question may not be known or available on the date your response is submitted. If this is the case, you have a continuing duty to provide the information when it becomes known or available.
8. Respond in writing to each question even if information on which your answer is based has not been recorded in any particular document.
9. If any requested documents have been transferred voluntarily or involuntarily to others or have been otherwise disposed of, identify (a) each document; (b) the person to whom it was transferred; and (c) the date of the transfer or disposal.
10. You have a duty to provide the requested information even if the information may be considered confidential or a trade secret. If you provide any information that relates to sales figures, processes or methods of production unique to your business, or information that would tend to affect adversely the competitive position of your business if generally known, you may certify this claim at the time you submit your response and the

information so certified will be held nonpublic as provided in Minnesota Statutes, Section 115B.17, subdivision 5 (1990). Any such certification must specifically identify the information that you believe qualifies for nonpublic treatment. If no such certification accompanies the information when it is received by the MPCA, it may be made available to the public by the MPCA without further notice to you.

Attachment 2
Definitions for Questionnaire

For the purpose of your answers to the Questionnaire, the following definitions shall apply:

1. RED ARROW WASTE DISPOSAL. "Red Arrow Waste Disposal" includes any agent, subcontractor, or any other person who conducted or did business on behalf of "Red Arrow Waste Disposal."
2. PIG'S EYE DUMP/FISH HATCHERIES DUMP. "Pig's Eye Dump/Fish Hatcheries Dump" means the property located 1/2 mile southeast of the intersection of Warner Road and Childs Road (an old report lists the address as 1150 Pig's Eye Lake Road), [Ramsey County, Section 10, T28N, R22W] and the property located at the intersection of Warner Road and Childs Road (an old report simply gives the address as Warner Road) [Ramsey County, Section 3, T28N, R22W], St. Paul, Minnesota.
3. YOU; BUSINESS. The terms "you" and "business," means the addressee of the Requirement to Provide Information.
4. DOCUMENT. "Document" means information preserved in any manner which is in the possession of or may be reasonably obtained by the addressee, including information in the possession of the addressee's directors, officers, shareholders, partners, managers, employees, subcontractors, trustees, successors, assigns, and agents, regardless of the location of the document or its classification as privileged or confidential. The term "document" includes but is not limited to the following: correspondence, contracts, agreements, memoranda, telegrams, reports, assignments, personnel records, record books, manifests, logs, scrap-books, diaries, minutes, plans, drawings, photographs, tapes, computer discs, invoices, checks, surveys and analyses.

5. IDENTIFY/Individual. The term "identify" means, with respect to an "individual," to set forth the person's full name, present or last known address, name of the employer, and a description of the job responsibilities of the person.

6. IDENTIFY/Business. The term "identify" means, with respect to a corporation, sole proprietorship, partnership, or other association or business entity, to set forth its full name, address, legal form (for example, corporation, partnership, etc.), and a brief description of the product or service offered by the business.

7. IDENTIFY/Document. The term "identify" means, with respect to a document to provide its customary business description, its date, its number if any (for example, invoice or purchase order number) as well as its author, addresser, addressee and/or recipient, and the substance or the subject matter.

8. PERSON. "Person," as defined in Minnesota Statutes, Section 115B.02, subdivision 12 (1990) means any individual, partnership, association, public or private corporation or other entity, including the United States government, any interstate body, the state and any agency, department or political subdivision of the state.

9. FACILITY. "Facility," as defined in Minnesota Statutes, Section 115b.02, subdivision 5 (1990) means:

(a) Any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer or publicly owned treatment works), well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle, rolling stock, or aircraft;

(b) Any watercraft of any description, or other artificial contrivance used or capable of being used as a means of transportation on water; or

(c) Any site or area where a hazardous substance, or a pollutant or contaminant, has been deposited, stored, disposed of, or placed, or otherwise come to be located.

"Facility" does not include any consumer product in consumer use.

10. HAZARDOUS SUBSTANCE. "Hazardous substance," as defined in Minnesota Statutes, Section 115B.02, subd. 8 (1990), means:

(a) Any commercial chemical designated pursuant to the Federal Water Pollution Control Act, under United States Code, title 33, section 1321 (b) (2) (A);

(b) Any hazardous air pollutant listed pursuant to the Clean Air Act, under United States Code, title 42, section 7412, and

(c) Any hazardous waste.

"Hazardous substance" does not include natural gas, natural gas liquids, liquefied natural gas, synthetic gas usable for fuel, or mixtures of such synthetic gas and natural gas, nor does it include petroleum, including crude oil or any fraction thereof which is not otherwise a hazardous waste.

11. HAZARDOUS WASTE. "hazardous waste," as defined in Minnesota Statutes, Section 115B.02, subdivision 9 (1990) means:

(a) Any hazardous waste as defined in section 116.06, subd. 13, and any substance identified as a hazardous waste pursuant to rules adopted by the agency under section 116.07; and

(b) Any hazardous waste as defined in the resource Conservation and Recovery Act, under United States Code, title 42, section 6903, which is listed or has the characteristics identified under United States Code, title 42, section 6921, not including any hazardous waste, the regulation of which has been suspended by Act of Congress.

12. POLLUTANT OR CONTAMINANT. "Pollutant or contaminant," as defined in Minnesota Statutes, Section 115B.02, subdivision 13 (1990) means any element, substance, compound, mixture, or agent, other than a hazardous substance, which after release from a facility and upon exposure of, ingestion, inhalation, or assimilation into any organism, either directly from the environment or indirectly by ingestion through food chains, will or may reasonably be anticipated to cause death, disease, behavioral abnormalities, cancer, genetic mutation, physiological malfunctions (including malfunctions in reproduction) or physical deformations, in the organisms or their offspring.

"Pollutant or contaminant" does not include natural gas, natural gas liquids, liquefied natural gas, synthetic gas usable for fuel, or mixtures of such synthetic gas and natural gas.

13. SOLID WASTE. "Solid waste," as defined in Minnesota Rules, Part 7035.0300, subpart 100 (1990) means garbage, refuse, sludge from a water supply treatment plant or air contaminant treatment facility, and other discarded waste materials and sludges, in solid, semisolid, liquid, or contained gaseous form, resulting from industrial, commercial, mining and agricultural operations, and from community activities, but does not include hazardous waste; animal waste used as fertilizer; earthen fill, boulders, rock; sewage sludge; solid or

-5-

dissolved material in domestic sewage or other common pollutants in water resources, such as silt, dissolved or suspended solids in industrial waste, water effluents or discharges which are point sources subject to permits under section 402 of the Federal Water Pollution Control Act, as amended, dissolved materials in irrigation return flows; or source, special nuclear, or by-product material as defined by The Atomic Energy Act of 1954, as amended.

14. RELEASE. "Release," as defined in Minnesota Statutes, Section 115B.02, subdivision 15 (1990) means any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment which occurred at a point in time or which continues to occur.

"Release" does not include:

(a) Emissions from the engine exhaust of a motor vehicle, rolling stock, aircraft, watercraft, or pipeline pumping station engine;

(b) Release of source, by-product, or special nuclear material from a nuclear incident, as those terms are defined in The Atomic Energy Act of 1954, under United States Code, title 42, section 2014, if the release is subject to requirements with respect to financial protection established by the federal nuclear regulatory commission under United States Code, title 42, section 2210.

(c) Release of source, by-product or special nuclear material from any processing site designated pursuant to the Uranium Mill Tailings Radiation Control Act of 1978, under United States Code, title 42, section 7912(a) or 7942(a); or

(d) Any release resulting from the application of fertilizer or agricultural or silvicultural chemicals, or disposal of emptied pesticide containers or residues from a pesticide as defined in section 18A.21, subd. 25.

LAW OFFICES
BRIGGS AND MORGAN
PROFESSIONAL ASSOCIATION

2400 IDS CENTER
MINNEAPOLIS, MINNESOTA 55402

TELEPHONE (612) 339-0861

TELECOPIER (612) 375-1078

INCLUDING THE FORMER FIRM OF
LEVITT, PALMER, BOWEN, ROTMAN & SHARE

WRITER'S DIRECT DIAL NUMBER: (612) 334-8531

March 14, 1991

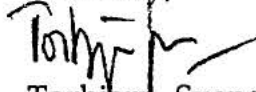
Ms. Cathy O'Connell
Site Response Section
Ground Water and Solid Waste Division
Minnesota Pollution Control Agency
520 Lafayette Road
Saint Paul, Minnesota 55155

**Re: Requirement to Provide Information,
Pig's Eye Dump/Fish Hatcheries Dump,**

Dear Ms. O'Connell:

Enclosed please find the Response of Red Arrow to the Requirement to Provide Information concerning Pig's Eye Dump/Fish Hatcheries Dump. If you have any further questions in this matter, please do not hesitate to contact me.

Sincerely,



Torbjörn Svensson

Enclosure

CC: Richard Krawczewski, Red Arrow

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Ground
Solid Waste

**Red Arrow Disposal Service's Responses to
Questionnaire for Pig's Eye Dump/Fish Hatcheries Dump
and
Request for Production of Documents**

1. Identify the full legal business name, address and telephone number of the business.

ANSWER: Red Arrow Waste Disposal Service
44 East Acker Street
Saint Paul, Minnesota 55117
Telephone: (612) 224-2035

2. How many years has the business been in operation?

ANSWER: 38 years

3. Identify the names and current addresses and telephone numbers of all current and past owner(s) of the business.

ANSWER:

Past owner of Red Arrow: Raymond Krawczewski
Deceased

Present owners: Helen Krawczewski
44 East Acker Street
Saint Paul, Minnesota 55117

Richard Krawczewski
44 East Acker Street
Saint Paul, Minnesota 55117

Thomas Krawczewski
44 East Acker Street
Saint Paul, Minnesota 55117

4. Identify all permits issued by federal, state, county, city or other governmental authorities which the business holds and the effective dates for such permits.

ANSWER: Standard Rubbish Licenses for the following Cities and Counties: St. Paul, Minneapolis, South St. Paul, West St. Paul, Oakdale, Roseville, Arden Hills, Woodbury, White Bear Lake, Township of White Bear Lake, Maplewood, Ramsey County, Washington County, Dakota County,

5. Did you haul garbage from businesses or industries to Pig's Eye Dump/Fish Hatcheries Dump from 1956 to 1972?

ANSWER: Red Arrow hauled waste from businesses or industries to Pig's Eye Dump/Fish Hatcheries Dump.

6. Did you haul hazardous waste to Pig's Eye Dump/Fish Hatcheries Dump? Include a list of (a) the name and address of all companies and/or individuals the business transported hazardous waste for (b) the type of hazardous waste if known; (c) how the waste was transported; (d) quantity disposed per load; (e) the time period of transportation and disposal of the hazardous waste.

ANSWER: The current owners of Red Arrow are not aware of any hazardous waste being hauled to Pig's Eye Dump/Fish Hatcheries Dump.

7. How was the garbage and/or hazardous waste picked up from businesses and industries stored (for example, in drums, barrels, dumpsters) for pick up?

ANSWER: Dumpsters, sometimes loose garbage.

8. Did the business ever pick up open or sealed, 55 gallon drums with unidentified contents? If so, please identify the companies and/or individuals names and addresses the drums were picked up from.

ANSWER: The current owners of Red Arrow are not aware of any 55 gallon drums being collected during the relevant time period.

9. Identify a list of all businesses and industrial customers whose garbage and/or hazardous waste you hauled to Pig's Eye Dump/Fish Hatcheries Dump.

ANSWER: Red Arrow no longer possesses this information.

10. Identify all persons whom the business consulted in the preparation of the response to the Questionnaire, including their current addresses, telephone numbers and relationship to the business.

ANSWER: Helen Krawczewski, Partner
 44 East Acker Street
 Saint Paul, Minnesota 55117

Richard Krawczewski, Partner
 44 East Acker Street
 Saint Paul, Minnesota 55117

Thomas Krawczewski, Partner
 44 East Acker Street
 Saint Paul, Minnesota 55117

Legal Counsel at
 Briggs and Morgan, P.A.
 2400 IDS Center
 Minneapolis, MN 55402

11. Identify any other persons who may be able to provide a more detailed or complete response to the Questionnaire or who may be able to provide additional relevant documents.

ANSWER: None.

12. Identify the insurance carrier held by you or the business during the time period you or the business hauled garbage and/or hazardous waste to Pig's Eye Dump/Fish Hatcheries Dump. Provide the name and address of each insurer and of the insured, amount of coverage under each policy, commencement and expiration data, existence of a "pollution exclusion" clause, and coverage of sudden or nonsudden types of accidents. (In lieu of providing this information, you may submit complete copies of all relevant insurance policies.)

ANSWER: The current owners of Red Arrow are able to identify only one insurance policy from the time period between 1956 and 1972:

Carrier:	Mutual Creamery Insurance Company.
Policy Number:	GA 1348-3
Coverage:	Property Damage, \$50,000.00 per occurrence
Pollution Exclusion clause:	Unknown
Sudden/non-sudden accidents:	Unknown

STATE OF MINNESOTA
POLLUTION CONTROL AGENCY

**In the Matter of
Pig's Eye Dump/
Fish Hatcheries Dump**

AFFIDAVIT OF
RICHARD KRAWCZEWSKI

STATE OF MINNESOTA)
) SS:
COUNTY OF RAMSEY)

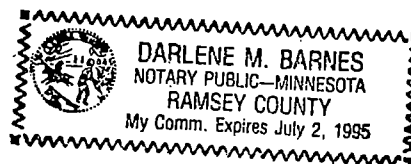
Richard Krawczewski, being first duly sworn, deposes and states as follows:

1. I am a partner and authorized representative for Red Arrow Waste Disposal Service ("Red Arrow").
2. I have conducted, or caused to be conducted, a diligent search for records relevant to the Requirement to Provide Information Pursuant to the Minnesota Environmental Response and Liability Act regarding the Pig's Eye Dump/Fish Hatcheries Dump, received from the Minnesota Pollution Control Agency under cover letter dated January 9, 1990.
3. I have conducted, or caused to be conducted, a diligent interview process with present and former employees who may have knowledge of waste generation or other waste management practices at the Pig's Eye Dump/Fish Hatcheries Dump between 1956 and 1972
4. The information contained in the Red Arrow Response is not based upon personal knowledge but is based upon existing business records of the company.

Richard Krawczewski
Richard Krawczewski

Subscribed and sworn to before me
this 25th day of February, 1991.

Darlene M. Barnes
Notary Public



LAW OFFICES
BRIGGS AND MORGAN
PROFESSIONAL ASSOCIATION

2400 IDS CENTER
MINNEAPOLIS, MINNESOTA 55402

TELEPHONE (612) 334-8400
FACSIMILE (612) 334-8650

RECEIVED

FEB 04 93

MPCA
& SOH

SAINT PAUL OFFICE
2200 FIRST NATIONAL BANK BUILDING
SAINT PAUL, MINNESOTA 55101
TELEPHONE (612) 223-6600
FACSIMILE (612) 223-6450

WRITER'S DIRECT DIAL NUMBER

February 2, 1993

(612) 334-8561

VIA FAX & MAIL

Ms. Miriam Horneff
Project Manager
Site Response Section
Minnesota Pollution Control Agency
520 Lafayette Road
St. Paul, MN 55155-3898

Re: Helen Krawczewski

Dear Ms. Horneff:

This letter is in response to Commissioner Williams' invitation in his January 8, 1993 to Helen Krawczewski to provide the Commission with additional information relevant to the proposed issuance of a RFRA to Mrs. Krawczewski regarding the White Bear Lake Township Dump.

As you might expect, Mrs. Krawczewski disagrees with a number of the statements and conclusions in Commissioner Williams' letter and the attached Site History. But there are two particular statements which we feel it important to correct at this point. Those are: a) Red Arrow made regular use of the property for disposal of waste; and b) Mrs. Krawczewski knowingly permitted Red Arrow to make regular use of the property for disposal of waste. Neither statement is correct.

Mrs. Krawczewski, who the Commission now seeks to hold responsible for a multimillion dollar cleanup, is a 77 year old grandmother whose only involvement with the property was to live in a house on the property, take care of her house and family and raise some chickens and some cows. Mrs. Krawczewski did not knowingly permit the farmsite "to be used as a disposal area for waste, including hazardous waste, collected by the family business, Red Arrow Waste Disposal." She did not knowingly permit Red Arrow to use the property for disposal because she did not permit anyone to use the property - she was not in control of the property. Her husband, Raymond Krawczewski, was the person who

BRIGGS AND MORGAN

Ms. Miriam Horneff

February 2, 1993

Page 2

controlled the use of the property. She married Raymond in 1941. As with most women of her generation, she had an old fashioned marriage - what Raymond Krawczewski decided was what was done. Raymond made all the decisions relating to the use of the property. Had she voiced an objection, it would have mattered little if at all.

Further, she also could not have knowingly permitted Red Arrow to regularly use the site for disposal because she did not know what was occurring at the dump. The dump, located on the far side of a pond and grove of trees quite a distance from the house, is not visible from the house because it is behind the large barn. The road to the dump is down the hill and out of sight of the house. Mrs. Krawczewski did not see any barrels of waste brought onto the site. Nor did she see what occurred at the dump site. She certainly did not know that industrial wastes were disposed of at the dumpsite.

That she did not knowingly permit the site to be used for disposal of hazardous wastes is further evidenced by the fact that she and her family, including grandchildren who have lived at the site, have drank well water from the site for years and years. Further, she raised livestock on the farm, in particular chickens, which her family consumed.

Nor could she have permitted Red Arrow to make regular use of the farmsite for disposal because Red Arrow neither regularly took wastes to the property nor took wastes there regularly for disposal. The disposal sites which Red Arrow regularly used for disposal of its loads were the major sanitary landfills in the St. Paul area, not the farmsite. Red Arrow took wastes to the farmsite only very infrequently. With respect to Reynolds, drummed wastes, consisting of some barrels of hydraulic oil, Raymond Krawczewski had those barrels brought out there so he could sell the oil to an oil recycler and sell the barrels for salvage. As the Krawczewskis bought the property in 1967 or 1968 and the Reynolds plant closed in 1969, Reynolds wastes came to the site only for a short period of time. Virtually all of Whirlpools' waste went to the sanitary landfills Red Arrow regularly used. Red Arrow did take 1 or 2 loads of drummed waste paint from Whirlpool to the property so that Raymond could sell the paint to the Menonites. In fact, Raymond did sell almost all the waste paint to the Menonites. Only a few drums rejected by the Menonites remained at the site. But, those barrels were not originally left at the site for disposal. Raymond buried those barrels only after White Bear Township insisted he bury all the metal on the site.

I have enclosed copies of pertinent parts of the deposition testimony of Richard Krawczewski and Mrs. Krawczewski reflecting the facts stated above.

One additional reason I believe the Commission should not name Mrs. Krawczewski as a potentially responsible part is that the statute of limitations has long since run. The statute of limitations for an action based on Minn. Stat. § 115B.01 to § 115B.15 is six from the date the cause of action accrued. Minn. Stat. § 115B.11. The MPCA issued the initial

BRIGGS AND MORGAN

Ms. Miriam Horneff

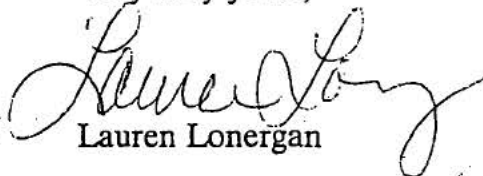
February 2, 1993

Page 3

request for response action in July, 1986. That is the absolutely latest time that accrual could have occurred. Clearly more than six years have passed since that time.

Three responsible parties have already been named - Reynolds Aluminum, Whirlpool Corporation and Red Arrow. Mrs. Krawczewski is a minority general partner of Red Arrow which is run by her son. Red Arrow has been working with the MPCA to resolve the final cleanup of the site. On Mrs. Krawczewski's behalf, we urge the Commission not to name an elderly woman who had no part in the use of the dumpsite and no ability to control such use as a person responsible for a multimillion dollar cleanup of a small dumpsite where others directly involved in usage of the site have been named and are in the process of cleaning up the site.

Very truly yours,



Lauren Loneran

LL/dk

Enclosure

LAW OFFICES
BRIGGS AND MORGAN
PROFESSIONAL ASSOCIATION

02146

2400 IDS CENTER
MINNEAPOLIS, MINNESOTA 55402

TELEPHONE (612) 334-8400
FACSIMILE (612) 334-8650

February 12, 1993

WRITER'S DIRECT DIAL NUMBER

(612) 334-8531

SAINT PAUL OFFICE
2200 FIRST NATIONAL BANK BUILDING
SAINT PAUL, MINNESOTA 55101
TELEPHONE (612) 223-8800
FACSIMILE (612) 223-8450

Cathy O'Connell
Superfund Unit, Solid Waste Section
Ground Water and Solid Waste Division
Minnesota Pollution Control Agency
520 Lafayette Road
Saint Paul, MN 55155-3898

RECEIVED

FEB 17 1993

Ground Water
Solid Waste Div.

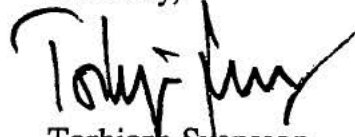
Re: Pig's Eye Dump/Fish Hatcheries Dump

Dear Ms. O'Connell:

Enclosed please find an amended response to MPCA's request for information sent to Red Arrow Waste Disposal under cover letter dated January 9, 1991. This document has been amended to accurately reflect the legal status of the company.

If you have any questions or comments in this regard, please do not hesitate to contact me.

Sincerely,


Torbjorn Svensson

HTS:sn
Enclosure
cc: Richard Krawczewski (w/attach.)

Ground Water & Solid Waste Division Site Response Section	
Site Name	
Category	
Subcategory	
Initials	

STATE OF MINNESOTA
POLLUTION CONTROL AGENCY

In the Matter of
Pig's Eye Dump/
Fish Hatcheries Dump

Red Arrow Waste Disposal Service's
Amended Response to Request
for Information

Request No. 1. Identify the full legal business name, address and telephone number of the business.

Answer: **Red Arrow Waste Disposal Service**
 44 East Acker Street
 Saint Paul, MN 55117
 Telephone: 612-224-2035

Red Arrow Waste Disposal is a general partnership formed in 1982. Whenever these responses answer questions regarding "the business" or "this business," the answer will relate to said general partnership.

Request No. 2. How many years has the business been in operation?

Answer: **Approximately 11 years.**

Request No. 3. Identify the names and current addresses and telephone numbers of all current and past owner(s) of the business.

Answer: **The general partners of Red Arrow Waste Disposal are:**

Richard Krawczewski
44 East Acker Street
St. Paul, Minnesota 55117
(612) 224-2035

Thomas Krawczewski
44 East Acker Street
St. Paul, Minnesota 55117
(612) 224-2035

**Helen Krawczewski
935 East Highway 96
White Bear Lake, Minnesota
(612) 429-4657**

Request No. 4. Identify all permits issued by federal, state, county, city or other governmental authorities which the business holds and the effective dates for such permits.

Answer: Standard Rubbish Licenses for the following cities and counties: St. Paul, Minneapolis, South Saint Paul, West Saint Paul, Oakdale, Roseville, Arden Hills, Woodbury, White Bear Lake, Township of White Bear Lake, Maplewood, Ramsey County, Washington County, Dakota County.

Request No. 5. Did you haul garbage from businesses or industries to Pig's Eye Dump/Fish Hatcheries Dump from 1956 to 1972?

Answer: No. Red Arrow Waste Disposal was formed in 1982 and was not in existence at that time. Between the years of 1956 and 1972, a sole proprietorship owned and operated by Raymond Krawczewski, deceased, hauled waste to Pig's Eye Dump/Fish Hatcheries Dump under variations of the name of "Red Arrow."

Request No. 6. Did you haul hazardous waste to Pig's Eye Dump/Fish Hatcheries Dump? Include a list of (a) the name and address of all companies and/or individuals the business transported hazardous waste for; (b) the type of hazardous waste, if know; (c) how the waste was transported; (d) quantity disposed per load; (e) the time period of transportation and disposal of the hazardous waste.

Answer: See, answer to Request No. 5. Red Arrow Waste Disposal is not aware of any hazardous waste being hauled to Pig's Eye Dump/Fish Hatcheries Dump by other haulers, including Raymond Krawczewski's sole proprietorship.

Request No. 7. How was the garbage and/or hazardous waste picked up from businesses and industries stored (for example, in drums, barrels, dumpsters) for pick up?

Answer: N/A.

Request No. 8. Did the business ever pick up open or sealed 55-gallon drums with unidentified contents? If so, please identify the companies and/or individuals names and addresses the drums were picked up from.

Answer: N/A.

Request No. 9. Identify a list of all businesses and industrial customers whose garbage and/or hazardous waste you hauled to Pig's Eye Dump/Fish Hatcheries Dump.

Answer: N/A.

Request No. 10. Identify all persons whom the business consulted in the preparation of the response to the Questionnaire, including their current addresses, telephone numbers and relationship to the business.

Answer:

**Richard Krawczewski, Partner
44 East Acker Street
St. Paul, Minnesota 55117
(612) 224-2035**

**Thomas Krawczewski, Partner
44 East Acker Street
St. Paul, Minnesota 55117
(612) 224-2035**

**Helen Krawczewski, Partner
935 East Highway 96
White Bear Lake, Minnesota
(612) 429-4657**

**Legal counsel at
Briggs and Morgan
2400 IDS Center
Minneapolis, Minnesota 55402**

Request No. 11. Identify any other persons who may be able to provide a more detailed or complete response to the Questionnaire or who may be able to provide additional relevant documents.

Answer: None.

Request No. 12. Identify the insurance carrier held by you or the business during the time period you or the business hauled garbage and/or hazardous waste to Pig's Eye Dump/Fish Hatcheries Dump. Provide the name and address of each insurer and of the insured, amount of coverage under each policy, commencement and expiration data, existence of a "pollution exclusion" clause, and coverage of sudden or nonsudden types of accidents. (In lieu of providing this information, you may submit complete copies of all relevant insurance policies.)

Answer: N/A.

STATE OF MINNESOTA
POLLUTION CONTROL AGENCY

In the Matter of the
Pig's Eye Dump/
Fish Hatcheries Dump

AFFIDAVIT OF
RICHARD KRAWCZEWSKI

STATE OF MINNESOTA)
)ss.
COUNTY OF RAMSEY)

Richard Krawczewski, being first duly sworn, states as follows:

1. I am a general partner and authorized representative for Red Arrow Waste Disposal Service ("Red Arrow").
2. I have conducted, or caused to be conducted, a diligent search for records relevant to the Requirement to Provide Information pursuant to the Minnesota Environmental Response and Liability Act regarding Pig's Eye Dump/Fish Hatcheries Dump, received from the Minnesota Pollution Control Agency under cover letter dated January 9, 1991.
3. I have conducted, or caused to be conducted, a diligent interview process with present and former employees who may have knowledge of waste generation or other waste management practices at Pig's Eye Dump/Fish Hatcheries Dump.
4. The information contained in Red Arrow Waste Disposal Service's Amended Response is not based upon personal knowledge but is based upon the business records of the company.

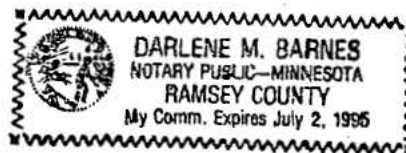
Further affiant saith not.

Dated: 2-2-, 1993.

By Richard Krawczewski
Richard Krawczewski

Subscribed and sworn to before me
on this 2nd day of February, 1993.

Darlene M. Barnes
Notary Public



BUREAU OF AIR POLLUTION CONTROL
DEPARTMENT OF PUBLIC UTILITIES
CITY OF ST. PAUL
100 E. 10th STREET
ST. PAUL, MN. 55101

AIR CONTAMINANT EMISSIONS SURVEY

Information is to be representative of Calendar Year

Received By:
 Reviewed By:
 County:
 SIC Number:
 Coordinates:

WHIRLPOOL CORPORATION - ST. PAUL DIVISION

Contact regarding this report: E. W. Hartung Title: Facilities Engineer Phone: 776-8511
 Address: 850 Arcade Street, St. Paul, Minnesota 55106
 Business: (Products) Chest Freezers, Vacuum Cleaners, Commercial Ice Makers
 Employees at plant location: 1,600; If seasonal, give range 1,600 - 2,000 Approximate land area at plant location:

SECTION 1 - FUEL USE FOR GENERATION OF HEAT, STEAM, AND POWER

Normal operating schedule: 6:00 A.M. - 12:00 P.M. Hours per day 18 Days per week 5 Weeks per year 50
 Normal and/or peak operation period: (Specify) March through October
 Estimate of percent of total fuel consumed to provide space heat: 50%

Source No.	A Size of unit (input) (B) 10 ⁶ Btu/hr	B Type unit (C)	C Installation Date	D Fuel Data (D)					E Air cleaning equipment		F Estimate of contaminants (M)	
				Type fuel (E)	Amount per year (F)	Heat content (G) Btu	Percent sulfur (G-H)	Percent ash (cool only) (G-H)	Type (I)	Efficiency (J) %	Type (K)	Quantity (L)
American Standard radiator	2.05		8-62	Gas	2,484,000 cu.ft.	1000/cu.ft.	-	-	-	-		
	2.05			#2 Oil	16,100 gal	140,000/gal	.5	-	-	-		
Boiler	76.96		8-67	Gas	113,727,000 cu.ft.	1000/cu.ft.	-	-	-	-		
Boilers	72.26			#6 Oil	330,000 gal	153,000/gal	2.2					

SECTION II - REFUSE DISPOSAL

Refuse disposed of: None - On site All Off site - Location of disposal site and/or name of hauler: Red Arrow Waste Disposal St. Paul Landfill Figs Eye
 Normal on-site combustion operating schedule: Hours per day Days per week Weeks per year
 Normal and/or peak operation period: (Specify)

Source No. (A)	B Waste material		C Method of disposal (See Code Page 2)	D Incinerator capacity, lb/hr	E Auxiliary fuel used (O)	F Type and efficiency, air cleaning equipment (I-J)	G Estimate of contaminants (M)	
	Type (N)	Amount per year (F)					Type (K)	Quantity per year (L)
			2					

BUREAU OF AIR POLLUTION CONTROL
DEPARTMENT OF PUBLIC UTILITIES
CITY OF ST. PAUL
100 E. 10th STREET
ST. PAUL, MN. 55101

AIR CONTAMINANT EMISSIONS SURVEY

Information is to be representative of Calendar Year _____

Received By: _____
 Reviewed By: _____
 County: _____
 SIC Number: _____
 Coordinates: _____

02250

contact regarding this report: _____ Title: _____ Phone: _____

Address: _____

Business: (Products) _____

Employees at plant location: _____; If seasonal, give range _____ Approximate land area at plant location: _____

SECTION 1 – FUEL USE FOR GENERATION OF HEAT, STEAM, AND POWER

Normal operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____

Seasonal and/or peak operation period: (Specify) _____

Estimate of percent of total fuel consumed to provide space heat: _____

Source No.	A Size of unit (input) (B) 10 ⁶ Btu/hr	B Type unit (C)	C Installation Date	D E F G H				I Type (J)	J Efficiency (K)	K L	
				Type fuel (E)	Amount per year (F) cu.ft.	Heat content (G) Btu	Percent sulfur (G-H)	Percent ash (coal only) (G-H)		Type (K)	Quantity (L)
Boiler	28.7		4-47	Gas	22,429,000	1,000/cu.ft.	-	-	-	-	
Boilers	28.9			#6 Oil	56,200 gal	153,000/gal	2.2				
Boiler	31.1		8-47	Gas	46,797,000	1,000/cu.ft.	-	-			
Boiler	31.4			#6 Oil	79,600 gal	153,000/gal	2.2				

SECTION II – REFUSE DISPOSAL

Refuse disposed of: _____ On site _____ Off site – Location of disposal site and/or name of hauler: _____

Normal on-site combustion operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____

Seasonal and/or peak operation period: (Specify) _____

Source No. (A)	B		C Method of disposal (See Code Page 2)	D Incinerator capacity, lb/hr	E Auxiliary fuel used (G)	F Type and efficiency, air cleaning equipment (I-J)	G H	
	Type (N)	Amount per year (F)					Type (K)	Quantity per year (L)

SECTION III - PROCESS EMISSIONS

Normal operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____
 Normal and/or peak operation period: _____

E: For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

02251

Source No. (A)	Processes or operations releasing contaminants to atmosphere (A-P)	Installation Date	Materials processed and/or used at operations		Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I-J)	Estimate of contaminants (M)		Basis of estimate (N) (Please specify basis)
			Type (Q)	Quantity per year (F)			Type (K)	Quantity per year (L)	
1		7-47	Water Vapor		4,600 CFM				
2		10-58	Paints & Solvents)		18,200 CFM				
3		10-58	" ")	17,000 CFM				
4		10-58	" ") 35,000 lbs	1,300 CFM				
5		1-71	Gas Comb.)	240 CFM				
6		7-47	Water & Gas)	1,600 CFM				

Give a different no. to represent each source and then give stack data opposite the same number on Section IV.

Sample data are sufficient.

Manufactured; underfeed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun-type oil burner; etc.

Fuel data are to be reported on "as burned basis".

Coke, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LFG; refinery or coke oven gas; wood, etc.

Pounds, tons, or gallons per year.

If unknown, please give name and address of fuel supplier.

Sulfur and ash content for each fuel should be a weighted average.

Cyclone, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.

Please state if efficiency is a rated or operating efficiency.

Fly ash, sulfur oxides, etc. (include chemical description).

Pounds or tons per year.

Give stack test data if available, or otherwise specify basis used.

Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.

Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).

Acid produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.

Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.

List sources Sections I, II, III which utilize each stack.

METHOD OF DISPOSAL CODE:

1. Open-burning dump.
2. Sanitary landfill. (no burning)
3. Burned in boiler or furnace.
4. Incinerator, single chamber.
5. Incinerator, multiple chamber.
6. Incinerator, rotary.
7. Conical metal burner.
8. Other (Specify)

SECTION IV - STACK DATA

Department 3
1-6

SOURCES VENTED (S)	HEIGHT (Feet)	INSIDE DIAMETER (Feet)	EXIT GAS		
			Temperature of	Velocity (FPS)	Moisture (%)
1 Metal Prep. Washer	50	1.5 x 2		27	
2 Waterwash Spray Booth	50	2-2/3		54	
3 Waterwash Spray Booth	50	2-5/6		45	
4 Oven Exhaust	50	1		28	

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Date _____ Name and title of official submitting reports _____

SECTION III - PROCESS EMISSIONS

02252

Normal operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____

Start and/or peak operation period: _____

E: For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

Source No.(A)	Processes or operations releasing contaminants to atmosphere (A - P)	Installation Date	Materials processed and/or used at operations		Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I-J)	Estimate of contaminants (M)		Basis of estimate (N) (Please specify basis)
			Type (Q)	Quantity per year (R)			Type (K)	Quantity per year (L)	
7.		8-62	Polyurethane	1,600 lbs.	7,000 CFM				
8		8-62	Polyurethane		500 CFM				
9		8-62	Polyurethane						

Give a different no. to represent each source and then give stack data opposite the same number on Section IV.

Sample data are sufficient.

Under-fired; underfeed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun-type oil burner; etc.

Fuel data are to be reported on "as burned basis."

Coke, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LPG; refinery or coke oven gas; wood, etc.

Pounds, tons, or gallons per year.

If unknown, please give name and address of fuel supplier.

Sulfur and ash content for each fuel should be a weighted average.

Cyclone, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.

Please state if efficiency is a rated or operating efficiency.

Fly ash, sulfur oxides, etc. (include chemical description).

Pounds or tons per year.

Give stack test data if available, or otherwise specify basis used.

Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.

Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).

Acids produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.

Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.

List sources Sections I, II, III which utilize each stack.

METHOD OF DISPOSAL CODE:

1. Open-burning dump.
2. Sanitary landfill. (no burning)
3. Burned in boiler or furnace.
4. Incinerator, single chamber.
5. Incinerator, multiple chamber.
6. Incinerator, rotary.
7. Conical metal burner.
8. Other (Specify)

SECTION IV - STACK DATA

SOURCES VENTED (S)	HEIGHT (Feet)	INSIDE DIAMETER (Feet)	EXIT GAS		
			Temperature of	Velocity (FPS)	Moisture (%)
5 Dryer Exhaust	50	1		5	
6 Washer-Dryer Exhaust	50	1-2/3		13	
7 Foam Area Exhaust	50	2-1/3		27	
8 Foam Area Exhaust	50	1		11	

Department A
7-9

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Date _____ Name and title of official submitting reports _____

SECTION III - PROCESS EMISSIONS

Normal operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____

Normal and/or peak operation period: _____

E: For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

02253

Source No. (A)	Processes or operations releasing contaminants to atmosphere (A - P)	Installation Date	Materials processed and/or used at operations		Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I-J)	Estimate of contaminants (M)		Basis of estimate (N) Please specify basis
			Type (Q)	Quantity per year (F)			Type (K)	Quantity per year (L)	
10		8-63	Polyurethane		1,600 CFM				
11		8-63	Polyurethane		1,300 CFM				
12		8-63	Polyurethane		5,100 CFM				

Give a different no. to represent each source and then give stock data opposite the same number on Section IV.

Complete data are sufficient.

Underfired; underfeed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun-type oil burner; etc.

Fuel data are to be reported on "as burned basis."

Coke, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LPG; refinery or coke oven gas; wood, etc.

Pounds, tons, or gallons per year.

If unknown, please give name and address of fuel supplier.

Sulfur and ash content for each fuel should be a weighted average.

Cyclone, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.

Please state if efficiency is a rated or operating efficiency.

Fly ash, sulfur oxides, etc. (include chemical description).

Pounds or tons per year.

Give stock test data if available, or otherwise specify basis used.

Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.

Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).

Acid produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.

Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.

List sources Sections I, II, III which utilize each stock.

METHOD OF DISPOSAL CODE:

1. Open-burning dump.
2. Sanitary landfill. (no burning)
3. Burned in boiler or furnace.
4. Incinerator, single chamber.
5. Incinerator, multiple chamber.
6. Incinerator, rotary.
7. Cement metal burner.
8. Other (Specify)

SECTION IV - STACK DATA

Department 5
10-16

SOURCES VENTED (S)	HEIGHT (Feet)	INSIDE DIAMETER (Feet)	EXIT GAS		
			Temperature of	Velocity (FPS)	Moisture (%)
9 Curing Oven	50				
10 Curing Oven	45	1-1/2 x 1-2/3		11	
11 Curing Oven	45	1-1/2 x 1-2/3		8	
12 Curing Oven	45	1-5/6 x 1-5/6		25	

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Date

Name and title of official submitting reports

SECTION III - PROCESS EMISSIONS

02254

normal operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____

normal and/or peak operation period: _____

E: For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

Source No.(A)	Processes or operations releasing contaminants to atmosphere (A - P)	Installation Date	Materials processed and/or used at operations		Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I-J)	Estimate of contaminants (M)		Basis of estimate (N) (Please specify basis)
			Type (Q)	Quantity per year (F)			Type (K)	Quantity per year (L)	
13		8-63	Polyurethane		5,100 CFM				
14		8-63	Gas Combustion		800 CFM				
15		8-63	Gas Combustion		800 CFM				
16		8-63	Polyurethane	500,000 lbs	7,600 CFM				

Give a different no. to represent each source and then give stock data opposite the same number on Section IV.

1. If sample data are sufficient.

2. If sample data are to be reported on "as burned basis".

3. Coke, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LPG; refinery or coke oven gas; wood, etc.

4. Pounds, tons, or gallons per year.

5. If unknown, please give name and address of fuel supplier.

6. Sulfur and ash content for each fuel should be a weighted average.

7. Cyclone, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.

8. Please state if efficiency is a rated or operating efficiency.

9. Fly ash, sulfur oxides, etc. (include chemical description).

10. Pounds or tons per year.

11. Give stock test data if available, or otherwise specify basis used.

12. Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

13. Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.

14. Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).

15. Acid produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.

16. Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.

17. List sources Sections I, II, III which utilize each stock.

METHOD OF DISPOSAL CODES:

1. Open-burning dump.
2. Sanitary landfill. (no burning)
3. Burned in boiler or furnace.
4. Incinerator, single chamber.
5. Incinerator, multiple chamber.
6. Incinerator, rotary.
7. Catalytic metal burner.
8. Other (Specify)

SECTION IV - STACK DATA

SOURCES VENTED (S)	HEIGHT (Feet)	INSIDE DIAMETER (Feet)	EXIT GAS		
			Temperature of	Velocity (FPS)	Moisture (%)
13 Curing Oven	45	1-5/6 x 1-5/6		25	
14 Burner Oven	60	1		2	
15 Burner Oven	60	1		2	
16 Foam Booth	35	2-1/3 x 2-1/3		23	

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Date

Name and title of official submitting reports

SECTION III - PROCESS EMISSIONS

Operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____

Include and/or peak operation period: _____

E: For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

Source No. (A)	Processes or operations releasing contaminants to atmosphere (A - P)	Installation Date	Materials processed and/or used at operations		Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I-J)	Estimate of contaminants (M)		Basis of estimate (I) Please specify basis
			Type (Q)	Quantity per year (F)			Type (K)	Quantity per year (L)	
17		10-56	Water Vapor		7,700 CFM				
18		10-56	Water Vapor						
19		10-56	Gas Combustion						
20		8-65	Porcelain Frit)						
21		8-65	Porcelain Frit)	1,000,000	lbs.				
22		8-65	Porcelain Frit)						

a Give a different no. to represent each source and then give stack data opposite the same number on Section IV.

b Sample data are sufficient.

c Underfired; underfeed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun-type oil burner; etc.

d Fuel data are to be reported on "as burned basis"

e Coke, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LPG; refinery or coke oven gas; wood, etc.

f Pounds, tons, or gallons per year.

g If unknown, please give name and address of fuel supplier.

h Sulfur and ash content for each fuel should be a weighted average.

i Cyclone, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.

j Please state if efficiency is a rated or operating efficiency.

k Fly ash, sulfur oxides, etc. (include chemical description).

l Pounds or tons per year.

m Give stock test data if available, or otherwise specify basis used.

n Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

o Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.

p Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).

q Acid produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.

r Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.

s List sources Sections I, II, III which utilize each stock.

METHOD OF DISPOSAL CODE:

1. Open-burning dump.
2. Sanitary landfill. (no burning)
3. Burned in boiler or furnace.
4. Incinerator, single chamber.
5. Incinerator, multiple chamber.
6. Incinerator, rotary.
7. Conical metal burner.
8. Other (Specify)

SECTION IV - STACK DATA

SOURCES VENTED (S)	HEIGHT (Feet)	INSIDE DIAMETER (Feet)	EXIT GAS		
			Temperature of	Velocity (FPS)	Moisture (%)
17 Metal Prep. Exntrance	60	1-1/4 x 2		49	
18 Metal Prep. Exit	60				
19 Dryer Exhaust	60				
20 Stipple Booth	45	3.5			

Department 6
17-25

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Date _____ Name and title of official submitting reports _____

SECTION III - PROCESS EMISSIONS

of operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____

and/or peak operation period: _____

For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

Source No. (A)	Processes or operations releasing contaminants to atmosphere (A - P)	Installation Date	Materials processed and/or used at operations		Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I - J)	Estimate of contaminants (M)		Basis of estimate (N) Please specify basis
			Type (Q)	Quantity per year (F)			Type (K)	Quantity per year (L)	
23		8-65	Gas Combustion		1,100 CFM				
24		8-65	Gas Combustion		19,300 CFM				

Give a different no. to represent each source and then give stack data opposite the same number on Section IV.

Complete data are sufficient.

Underlaid; underlaid, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun-type oil burner; etc.

Coal data are to be reported on "as burned basis".

Coke, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LPG; refinery or coke oven gas; wood, etc.

Pounds, tons, or gallons per year.

If unknown, please give name and address of fuel supplier.

Sulfur and ash content for each fuel should be a weighted average.

Systems, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.

Please state if efficiency is a rated or operating efficiency.

Fly ash, sulfur oxides, etc. (include chemical description).

Pounds or tons per year.

Give stack test data if available, or otherwise specify basis used.

Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.

Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).

Acid produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.

Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.

List sources Sections I, II, III which utilize each stack.

METHOD OF DISPOSAL CODE:

1. Open-burning dump.
2. Sanitary landfill. (no burning)
3. Burned in boiler or furnace.
4. Incinerator, single chamber.
5. Incinerator, multiple chamber.
6. Incinerator, rotary.
7. Conical metal burner.
8. Other (Specify)

SECTION IV - STACK DATA

SOURCES VENTED (S)	HEIGHT (Feet)	INSIDE DIAMETER (Feet)	EXIT GAS		
			Temperature of	Velocity (FPS)	Moisture (%)
21 Spray Booth	45	3.5			
22 Spray Booth	45	3.5			
23 Stipple Dryer	45	2-2/3		3	
24 Enameling Furnace	45	3.5		33	

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Date _____ Name and title of official submitting reports _____

SECTION III - PROCESS EMISSIONS

of operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____

and/or peak operation period: _____

For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

Source No. (A)	Processes or operations releasing contaminants to atmosphere (A-P)	Installation Date	Materials processed and/or used at operations		Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I-J)	Estimate of contaminants (M)		Basis of estimate (N) (Please specify basis)
			Type (Q)	Quantity per year (F)			Type (K)	Quantity per year (L)	
25		8-65	Water Vapor		12,700 CFM				
26		7-49	Water Vapor		17,400 CFM				
27		7-49	Paints & Solvents		12,000 CFM				
28		7-49	"	"	12,700 CFM				
29		7-49	"	"	13,400 CFM				
30		7-49	"	"	13,400 CFM				

Give a different no. to represent each source and then give stock data opposite the same number on Section IV.

Complete data are sufficient.

Underfeed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun-type oil burner; etc.

Fuel data are to be reported on "as burned basis"

Coke, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LPG; refinery or coke oven gas; wood, etc.

Pounds, tons, or gallons per year.

If unknown, please give name and address of fuel supplier.

Sulfur and ash content for each fuel should be a weighted average.

Cyclone, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.

Please state if efficiency is a rated or operating efficiency.

Fly ash, sulfur oxides, etc. (include chemical description).

Pounds or tons per year.

Give stock test data if available, or otherwise specify basis used.

Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.

Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).

Acid produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.

Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.

List sources Sections I, II, III which utilize each stock.

METHOD OF DISPOSAL CODE:

1. Open-burning dump.
2. Sanitary landfill. (no burning)
3. Burned in boiler or furnace.
4. Incinerator, single chamber.
5. Incinerator, multiple chamber.
6. Incinerator, rotary.
7. Conical metal burner.
8. Other (Specify)

SECTION IV - STACK DATA

Department 7
26-36

SOURCES VENTED (S)	HEIGHT (Feet)	INSIDE DIAMETER (Feet)	EXIT GAS		
			Temperature of	Velocity (FPS)	Moisture (%)
25 Passivating Area	60	2-5/6		34	
26 Metal Preparation	65	3-1/6		37	
27 Spray Booth	65	3-1/2		21	
28 Spray Booth	65	2-5/6		15	

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Date

Name and title of official submitting reports

SECTION III - PROCESS EMISSIONS

02258

Normal operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____

Seasonal and/or peak operation period: _____

NOTE: For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

Source No. (A)	Processes or operations releasing contaminants to atmosphere (A - P)	Installation Date	Materials processed and/or used at operations		Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I - J)	Estimate of contaminants (M)		Basis of estimate (N) Please specify basis.
			Type (Q)	Quantity per year (R)			Type (K)	Quantity per year (L)	
31		7-49	Paints & Solvents		13,400 CFM				
32		7-59	"	"	11,400 CFM				
33		7-59	"	"	13,200 CFM				
34		7-49	"	"	14,000 CFM				
35		7-49	"	"	9,200 CFM				
36		8-60	Water Vapor		3,500 CFM				

*Give a different no. to represent each source and then give stock data opposite the same number on Section IV.

*If complete data are sufficient.

*If fired; underfeed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun-type oil burner; etc.

*Fuel data are to be reported on "as burned" basis.

*Coke, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LPG; refinery or coke oven gas; wood, etc.

*Pounds, tons, or gallons per year.

*If unknown, please give name and address of fuel supplier.

*Sulfur and ash content for each fuel should be a weighted average.

*Cyclone, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.

*Please state if efficiency is a rated or operating efficiency.

*Fly ash, sulfur oxides, etc. (include chemical description).

*Pounds or tons per year.

*Give stock test data if available, or otherwise specify basis used.

*Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

*Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.

*Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).

*Acid produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.

*Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.

*List sources Sections I, II, III which utilize each stock.

METHOD OF DISPOSAL CODE:

1. Open burning dump.
2. Sanitary landfill. (no burning)
3. Burned in boiler or furnace.
4. Incinerator, single chamber.
5. Incinerator, multiple chamber.
6. Incinerator, rotary.
7. Conical metal burner.
8. Other (Specify)

SECTION IV - STACK DATA

SOURCES VENTED (S)	HEIGHT (Feet)	INSIDE DIAMETER (Feet)	EXIT GAS		
			Temperature of	Velocity (FPS)	Moisture (%)
29 Spray Booth	65	2-5/6		15	
30 Spray Booth	65	3-1/2		23	
31 Spray Booth	65	3-1/2		23	
32 Dry Spray Booth	65	2-5/16		30	

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Date

Name and title of official submitting reports

SECTION III - PROCESS EMISSIONS

Operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____
 and/or peak operation period: _____
 For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

Source No. (A)	A	B	C		D	E	F	G		H	I
	Processes or operations releasing contaminants to atmosphere (A-P)	Installation Date	Type (Q)	Quantity per year (F)	Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I-J)	Estimate of contaminants (M)	Type (K)	Quantity per year (L)	Basis of estimate (R) Please specify basis	
Total	26-36		Paints & Solvents		60,000 lbs.						

Give a different no. to represent each source and then give stock data opposite the same number on Section IV.

Complete data are sufficient.

Unburned; under-feed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun-type oil burner; etc.

Fuel data are to be reported on "as burned basis."

Coal, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LPG; refinery or coke oven gas; wood, etc.

Units; tons, or gallons per year.

Unknown, please give name and address of fuel supplier.

Water and ash content for each fuel should be a weighted average.

Cyclone, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.

Please state if efficiency is a rated or operating efficiency.

Fly ash, sulfur oxides, etc. (include chemical description).

Units or tons per year.

Give stock test data if available, or otherwise specify basis used.

Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.

Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).

Acid produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.

Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.

List sources Sections I, II, III which utilize each stock.

METHOD OF DISPOSAL CODE:

1. Open-burning dump.
2. Sanitary landfill. (no burning)
3. Burned in boiler or furnace.
4. Incinerator, single chamber.
5. Incinerator, multiple chamber.
6. Incinerator, rotary.
7. Conical metal burner.
8. Other (Specify)

SECTION IV - STACK DATA

	SOURCES VENTED (S)	HEIGHT (Feet)	INSIDE DIAMETER (Feet)	EXIT GAS		
				Temperature of	Velocity (FPS)	Moisture (%)
33	Dry Spray Booth	65	2-5/6		35	
34	Oven Exhaust	65	2-1/3		55	
35	Oven Exhaust	65	2-1/3		33	
36	Metal Preparation	75	2		18	

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Name and title of official submitting reports

SECTION III - PROCESS EMISSIONS

Operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____
 Normal and/or peak operation period: _____
 For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

Source No. (A)	Processes or operations releasing contaminants to atmosphere (A - P)	Installation Date	Materials processed and/or used at operations		Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I-J)	Estimate of contaminants (M)		Basis of estimate (R) Please specify basis
			Type (Q)	Quantity per year (F)			Type (K)	Quantity per year (L)	
37		8-60	Paints & Solvents		16,400 CFM				
38		8-60	"	25,000 lbs.	6,300 CFM				
39		8-60	"		5,800 CFM				
40		8-60	Solvents	10,000 lbs.	5,300 CFM				
41		8-60	Gas Comb.		2,400 CFM				
42		8-60	Solvents		1,900 CFM				

- Give a different no. to represent each source and then give stock data opposite the same number on Section IV.
 If complete data are sufficient.
 If fired; underfeed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun-type oil burner; etc.
 Fuel data are to be reported on "as burned basis".
 Coke, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LPG; refinery or coke oven gas; wood, etc.
 Pounds, tons, or gallons per year.
 If unknown, please give name and address of fuel supplier.
 Sulfur and ash content for each fuel should be a weighted average.
 Cyclone, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.
 Please state if efficiency is a rated or operating efficiency.
 Fly ash, sulfur oxides, etc. (include chemical description).
 Pounds or tons per year.
 Give stock test data if available, or otherwise specify basis used.
 Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.
 Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.
 Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).
 Acid produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.
 Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.
 List sources Sections I, II, III which utilize each stock.

- METHOD OF DISPOSAL CODES:
 1. Open-burning dump.
 2. Sanitary landfill. (no burning)
 3. Burned in boiler or furnace.
 4. Incinerator, single chamber.
 5. Incinerator, multiple chamber.
 6. Incinerator, rotary.
 7. Conical metal burner.
 8. Other (Specify)

SECTION IV - STACK DATA

Department 12
37-42

	SOURCES VENTED (S)	HEIGHT (Feet)	INSIDE DIAMETER (Feet)	EXIT GAS		
				Temperature of	Velocity (FPS)	Moisture (%)
37	Spray Booth (East)	75	3-1/2		28	
38	Spray Booth (West)	75	3-1/2		11	
39	Spray Booth	75	2		31	
40	Oven Exhaust	75	1-2/3		40	

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Date _____ Name and title of official submitting reports _____

SECTION III - PROCESS EMISSIONS

02261

operating schedule: _____ Hours per day _____ Days per week _____ Weeks per year _____

at and/or peak operation periods: _____

For intermittent operations, indicate approximate frequency and duration so that estimates of yearly emissions may be obtained.

Source No. (A)	Processes or operations releasing contaminants to atmosphere (A-P)	Installation Date	Materials processed and/or used at operations		Quantity of gas discharged from process or operation	Type and efficiency of air cleaning equipment (I-J)	Estimate of contaminants (M)		Basis of estimate (R) (Please specify basis)
			Type (Q)	Quantity per year (F)			Type (K)	Quantity per year (L)	
43		6-55	Paint & Solvents	26 gal.	11,000 CFM				
44		10-50	Gas & #2 Oil						

Give a different no. to represent each source and then give stock data opposite the same number on Section IV.

Complete data are sufficient.

For solid, under-feed, traveling-grate or spreader stoker; cyclone furnace; pulverized, wet or dry bottom with or without fly ash reinjection; rotary or gun-type oil burner; etc.

Fuel data are to be reported on "as burned basis."

Coal, bituminous coal, anthracite coal; No. 1, 2, 4, 5 or 6 fuel oil; natural gas; LPG; refinery or coke oven gas; wood, etc.

Pounds, tons, or gallons per year.

If unknown, please give name and address of fuel supplier.

Sulfur and ash content for each fuel should be a weighted average.

Cyclone, scrubber, electrostatic precipitator, baghouse, settling chamber, etc.

Please state if efficiency is a rated or operating efficiency.

Fly ash, sulfur oxides, etc. (include chemical description).

Pounds or tons per year.

Give stock test data if available, or otherwise specify basis used.

Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.

Sulfuric acid-chamber, aluminum smelting-crucible furnace, iron melting-cupola, cement manufacture-dry process, solvent cleaning, or other (please specify).

Acid produced, tons; metal charged or processed, tons; cement produced, bbl.; solvent consumed, gallons; etc. per year.

Process material balance studies, field tests by plant or by equipment manufacturers, or other basis.

List sources Sections I, II, III which utilize each stock.

METHOD OF DISPOSAL CODE:

1. Open-burning dump.
2. Sanitary landfill. (no burning)
3. Burned in boiler or furnace.
4. Incinerator, single chamber.
5. Incinerator, multiple chamber.
6. Incinerator, rotary.
7. Conical metal burner.
8. Other (Specify)

SECTION IV - STACK DATA

Building 30

43-44

41

Burner Exhaust

75

1-1/2

23

42

Paint Exhaust

75

1-1/2

18

43

Spray Booth

6

2

58

44

Boiler Stack

60

2

Any supplemental material or data considered pertinent (flow diagrams, reports, summaries, test results, maps) should be submitted with this form.

Date _____ Name and title of official submitting reports _____

